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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0604653N: <i>JT Cntr Radio Controlled IED Elec War (JCREW)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	63.485	56.542	62.044	-	62.044	71.284	55.079	55.783	56.473	Continuing	Continuing
3177: <i>Joint Counter Radio-Controlled IED Elec Warfare</i>	63.485	56.542	62.044	-	62.044	71.284	55.079	55.783	56.473	Continuing	Continuing

A. Mission Description and Budget Item Justification

Provides for the research and development of EW systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet global joint requirements. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations; provide Joint CREW development of equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with a migrating global threat. This program also includes development of Electromagnetic Environment (EME) data collection and analysis equipment that provides for the research, development and integration of realistic electromagnetic environments for primary use in the development, assessment, modeling, simulation, test and evaluation of CREW systems. Funding for this effort is required for Counter-IED initiatives being transferred from the Joint IED Defeat Organization (JIEDDO) in accordance with DEPSECDEF memo of 14 August 2007 and in accordance with DOD Directive 2000.19E.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	55.611	56.542	63.653	-	63.653
Current President's Budget	63.485	56.542	62.044	-	62.044
Total Adjustments	7.874	-	-1.609	-	-1.609
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	9.820	-			
• SBIR/STTR Transfer	-1.945	-			
• Program Adjustments	-	-	-0.475	-	-0.475
• Rate/Misc Adjustments	-	-	-1.134	-	-1.134
• Congressional General Reductions Adjustments	-0.001	-	-	-	-

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<p><u>Change Summary Explanation</u></p> <p>Technical: Not applicable.</p> <p>Schedule: Not applicable.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604653N: JT Cntr Radio Controlled IED Elec War (JCREW)				PROJECT 3177: Joint Counter Radio-Controlled IED Elec Warfare			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3177: Joint Counter Radio-Controlled IED Elec Warfare	63.485	56.542	62.044	-	62.044	71.284	55.079	55.783	56.473	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Provides for the research and development of EW systems, equipment, procedures, and tactical aids for all military services against the threat posed by Radio-Controlled Improvised Explosive Devices (RCIEDs) and to prevent initiation of RCIEDs across the spectrum of Joint military operations. The Navy has been designated as DOD Executive Agent and Single Manager for Military Ground-Based Counter Radio-Controlled Improvised Explosive Warfare (CREW) Technology by DOD Directive 5101.14 of 11 June 2007, requiring RDT&E to develop capabilities that meet global joint requirements. Utilize Joint requirements to provide a system of systems approach for a suite of equipment for mounted, dismounted, and fixed site operations; provide Joint CREW development of equipment, procedures, and tactical aids to make rapid improvements to performance, supportability and affordability, while maintaining pace with a migrating global threat. This program also includes development of Electromagnetic Environment (EME) data collection and analysis equipment that provides for the research, development and integration of realistic electromagnetic environments for primary use in the development, assessment, modeling, simulation, test and evaluation of CREW systems. Funding for this effort is required for Counter-IED initiatives being transferred from the Joint IED Defeat Organization (JIEDDO) in accordance with DEPSECDEF memo of 14 August 2007 and in accordance with DOD Directive 2000.19E.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: Joint Counter Radio-Controlled IED Elec Warfare	63.485	56.542	62.044
Articles:	0	0	0
Description: Defines the effort required for the design, engineering, development, fabrication and test of contractor's development models for in-house verification and validation for governmental developmental testing for JCREW System of Systems (SoS) to include the System Development and Demonstration (SD&D) Phase. The JCREW SoS approach includes three distinct capabilities that shall be developed and will utilize common component, software, and hardware solutions for an open, flexible, and compatible system design approach that is modular. These capabilities are: mobile dismounted operations, mobile ground, and waterborne transport and combat systems (mounted) and semi-permanent geographical area (fixed) systems. All capabilities will have coalition sharing capabilities. Multiple awards will be made for all capabilities.			
FY 2010 Accomplishments: Awarded two contracts for the development of the Joint Counter Radio Controlled IED Electronic Warfare (JCREW) 3.3 program.			
FY 2011 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2010	FY 2011	FY 2012		
Fabrication and testing of Engineering Development Models (EDMs) for the Joint Counter Radio Controlled IED Electronic Warfare (JCREW) 3.3 program. <i>FY 2012 Plans:</i> Complete Developmental and Operational Testing (OT) for Increment I; Milestone C.											
Accomplishments/Planned Programs Subtotals							63.485	56.542	62.044		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• OPN/5509: <i>Explosive Ordnance Disposal Equip</i>	0.000	0.000	61.134	0.000	61.134	18.009	36.692	41.589	35.174	Continuing	Continuing
D. Acquisition Strategy Analysis of Alternatives (AOA) studies are always conducted prior to the initiation of new subprojects. The AOA addresses and emphasizes acquisition strategies of the most cost effective solution over subprojects' life-cycle. At significant decision points, the AOA will be re-validated or updated to reflect changes in technology and threat. The acquisition strategies observe the following hierarchy of alternatives: commercial item (including modification), non-developmental item (including modification), and lastly, developmental programs. Contracting for RDT&E, if required, is always competitive and when feasible, production options are included. Procurements across the services may be combined to gain quantity discounts.											
E. Performance Metrics Gate 6 Milestone B complete 10 Jul 2009; Contract for Preliminary Design Review (PDR) awarded 01 Oct 2009; Achieved successful Preliminary Design Reviews (PDRs) April 2010 and awarded options for Critical Design Reviews (CDRs) in April 2010; Milestone C anticipated in Q2 FY12.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0604653N: JT Cntr Radio Controlled IED Elec War (JCREW)				PROJECT 3177: Joint Counter Radio-Controlled IED Elec Warfare					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPIF	ITT:CA	7.540	12.452	Nov 2010	4.219	Oct 2011	-		4.219	0.000	24.211	Continuing
Software Development	C/CPIF	ITT:CA	8.328	9.888	Nov 2010	2.810	Oct 2011	-		2.810	0.000	21.026	Continuing
Systems Engineering	C/CPIF	ITT:CA	6.890	6.410	Oct 2010	1.100	Nov 2011	-		1.100	Continuing	Continuing	Continuing
ILS	C/CPIF	ITT:CA	1.960	2.450	Oct 2010	1.200	Nov 2011	-		1.200	0.000	5.610	Continuing
System Integration	C/CPIF	ITT:CA	2.700	2.830	Oct 2010	2.400	Nov 2011	-		2.400	0.000	7.930	Continuing
Loadset Development	C/CPIF	ITT:CA	3.630	0.070	Oct 2010	0.500	Nov 2011	-		0.500	0.000	4.200	Continuing
Subtotal			31.048	34.100		12.229		-		12.229			
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Loadset Development	FFRDC	JHU/APL:Laurel, MD	-	0.030	Feb 2011	2.998	Nov 2011	-		2.998	0.000	3.028	
Systems Engineering	WR	NSWC:Various	-	-		2.424	Nov 2011	-		2.424	0.000	2.424	
Program Management Support	WR	NAVEODTECHDIV:Indian Head, MD	5.620	2.090	Oct 2010	3.720	Nov 2011	-		3.720	0.000	11.430	Continuing
System Integration	WR	NSWC:Various	-	-		1.938	Nov 2011	-		1.938	0.000	1.938	
Training Development	C/CPFF	SDI, GOV'T SOLUTIONS:LaPlata, MD	0.880	0.490	Oct 2010	3.033	Nov 2011	-		3.033	0.000	4.403	Continuing
Integrated Logistics Support	WR	NSWC:Various	0.500	0.500	Oct 2010	8.383	Nov 2011	-		8.383	0.000	9.383	Continuing
Configuration Management	WR	NSWC:Various	0.980	1.220	Oct 2010	1.446	Nov 2011	-		1.446	0.000	3.646	Continuing
Technical Data	WR	NSWC:Various	-	2.750	Oct 2010	2.831	Nov 2011	-		2.831	0.000	5.581	Continuing
Subtotal			7.980	7.080		26.773		-		26.773	0.000	41.833	

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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test & Evaluation	WR	NSWC:Various	9.230	6.930	Oct 2010	11.000	Nov 2011	-		11.000	0.000	27.160	Continuing
Operational Test & Evaluation	MIPR	ATEC:Arlington, VA	1.890	0.300	Oct 2010	5.800	Mar 2012	-		5.800	0.000	7.990	Continuing
Subtotal			11.120	7.230		16.800		-		16.800	0.000	35.150	

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	CACI:Fairfax, VA	4.830	4.890	Oct 2010	4.470	Nov 2011	-		4.470	0.000	14.190	Continuing
Miscellaneous	WR	NSWC:Various	0.633	3.242	Oct 2010	1.772	Nov 2011	-		1.772	0.000	5.647	Continuing
Subtotal			5.463	8.132		6.242		-		6.242	0.000	19.837	

			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			55.611	56.542		62.044		-		62.044			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy			DATE: February 2011
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3177				
JCREW 3.3 (Increment I)	1	2010	1	2015
System Development & Demonstration (Increment I)	1	2010	2	2012
JCREW 3.3 Tactical Decision Aid Development	1	2010	2	2012
JCREW 3.3 System Demonstration, Test and Eval of TDA and EME	1	2011	1	2013
JCREW 3.3 Electromagnetic Environment (EME) Data Collection and Analysis (Increment I)	1	2011	1	2013
Developmental Testing/Operational Assessment	1	2010	2	2012
Developmental Testing/Operational Testing	1	2011	4	2012
Milestone C (Increment I)	2	2012	2	2012
LRIP (Increment I)	2	2012	1	2014
Full Rate Production Decision (Increment I)	3	2013	3	2013
Production (Increment I)	4	2013	2	2016
JCREW 3.3 (Increment II)	1	2010	4	2016
Technology Demonstration	1	2010	4	2011
Tech Readiness Assessment and Performance Specification Development	1	2011	3	2012
System Development & Demonstration (Increment II)	2	2012	1	2014
JCREW 3.3 Tactical Decision Aid Upgrade	1	2013	1	2015
JCREW 3.3 System Demonstration, Test & Eval of TDA and EME	2	2012	3	2015
JCREW 3.3 Electromagnetic Environment (EME) Data Collection and Analysis (Increment II)	2	2012	3	2015
Milestone C (Increment II)	2	2014	2	2014
LRIP (Increment II)	3	2014	2	2015

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy			DATE: February 2011
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Full Rate Production Decision (Increment II)	3	2015	3	2015
Production (Increment II)	4	2015	4	2016
Tech Refresh	1	2015	4	2016

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